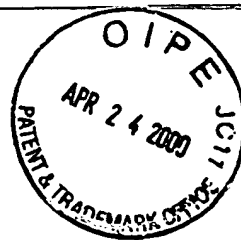


MAY 02 2000

TECH CENTER 1600/2900

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Philippe Gros  
Michael DuBow

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<210> 12  
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<400> 12  
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<210> 13  
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<212> DNA  
<213> Synthetic Sequence

<400> 13  
aattctcgag taaaataaca t 21

<210> 14  
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<213> Synthetic Sequence

<400> 14  
aaatcaggtg actgttgaga aaaggaggcg gatcccg 37

<210> 15  
<211> 27  
<212> DNA  
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<400> 15  
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<210> 16  
<211> 24  
<212> DNA  
<213> Synthetic Sequence

<400> 16  
gaaagtccaa attgtaagct tggg 24

<210> 17  
<211> 27  
<212> DNA  
<213> Synthetic Sequence

<400> 17  
ctcgaggaaa aggaggcgga tccgctt 27

<210> 18  
<211> 237  
<212> PRT  
<213> Staphylococcus aureus bacteriophage 77

<400> 18  
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Asn Pro Lys Phe Lys Lys Leu Asp Ser Asp Ile His Tyr Leu Leu Lys  
20 25 30  
Arg Phe Glu Gly Glu Lys Asn His Lys Gly Phe Tyr Pro Lys Phe Lys  
35 40 45  
Gln Gly Glu Ile Val Phe Val Asp Phe Gly Ile Asn Val Asn Lys Glu  
50 55 60

Sub  
B1  
cont.



Phe	Ser	Asn	Ser	His	Phe	Ala	Ile	Val	Met	Asn	Lys	Asn	Asp	Ser	Asn
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Thr	Glu	Asp	Ile	Val	Asn	Val	Ile	Pro	Leu	Ser	Ser	Lys	Glu	Asn	Lys
				85					90					95	
Lys	Tyr	Leu	Lys	Met	Asn	Phe	Asp	Leu	Lys	Trp	Glu	Tyr	Tyr	Leu	Arg
			100					105					110		
Leu	Phe	Leu	Asn	Leu	Ile	Ser	Ala	Gln	Asn	Asn	Ser	Ala	Ile	Leu	Lys
		115					120					125			
Glu	Val	Phe	Asp	Lys	Lys	Tyr	Gln	Lys	Asn	Asn	Thr	Glu	Phe	Ile	Thr
	130					135					140				
Lys	Asp	Tyr	Phe	Ile	Glu	Phe	Ile	Ser	Asp	Ser	Leu	Glu	Ile	Glu	Asn
145				150						155					160
Lys	Leu	Asn	Lys	Ile	Asp	Arg	Asn	Ile	Asn	Asn	Ile	Val	Ser	Ala	Ile
			165					170							175
Asp	Lys	Val	Lys	Lys	Leu	Lys	Gly	Asn	Ser	Tyr	Ala	Cys	Ile	Asn	Ser
			180					185					190		
Phe	Gln	Pro	Ile	Ser	Lys	Phe	Arg	Ile	Arg	Lys	Val	Leu	Pro	Gln	Lys
		195					200					205			
Ile	Lys	Asn	Pro	Val	Ile	Asp	Ser	Ser	Asp	Ile	Met	Leu	Leu	Ile	Asn
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 <213> Staphylococcus aureus bacteriophage 77

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Val	Leu	Tyr	Ser	Val	Lys	Glu	Ile	Phe	Arg	Tyr	Phe	Thr	Asp	Ser	Asn
			20					25					30		
Leu	Gln	Arg	Lys	Lys	Ile	Asn	Leu	Glu	Gln	Ile	Tyr	Pro	Ile	Tyr	Leu
		35				40						45			
Asp	Cys	Phe	Lys	Lys	Ala	Lys	Lys	Met	Ile	Gly	Ala	Tyr	Ile	Ile	Pro
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Thr	Glu	Gln	His	Glu	Phe	Leu	Asp	Phe	Phe	Asp	Ile	Glu	Val	Phe	Asn
65				70					75						80
Asn	Leu	Asp	Lys	Gln	Ser	Lys	Lys	Ala	Tyr	Glu	Asn	Val	Ile	Gly	Phe
			85						90					95	
Arg	Gln	Met	Ile	Asn	Leu	Ser	Asn	Arg	Val	Lys	Ala	Met	Glu	Asp	Phe
			100					105					110		
Lys	Met	Ser	Phe	Asn	Asn	Glu	Phe	Ser	Thr	Asn	Gln	Ile	Phe	Phe	Asn
		115				120						125			
Pro	Ser	Phe	Val	Met	Glu	Thr	Ile	Ala	Ile	Ile	Asn	Glu	Tyr	Gln	Lys
	130					135					140				
Asp	Ile	Ser	Tyr	Leu	Lys	Asn	Ile	Ile	Asn	Lys	Met	Asn	Glu	Asn	Arg
145				150						155					160
Ala	Tyr	Asn	His	Ile	Asp	Ser	Phe	Ile	Thr	Ser	Glu	Tyr	Arg	Arg	Lys
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Ile	Asn	Asp	Tyr	Asn	Leu	Tyr	Leu	Asp	Lys	Phe	Glu	Glu	Gln	Phe	Ser
		180						185					190		
Gln	Lys	Phe	Lys	Ile	Asn	Arg	Thr	Ser	Ile	Lys	Glu	Arg	Ile	Ile	Ile
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Sub B1 Cont

210

215

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 <212> PRT  
 <213> Staphylococcus aureus bacteriophage 77

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 20 25 30  
 Arg Lys Lys Ile Asn Leu Glu Gln Ile Tyr Pro Ile Tyr Leu Asp Cys  
 35 40 45  
 Phe Lys Lys Ala Lys Lys Met Ile Gly Ala Tyr Ile Ile Pro Thr Glu  
 50 55 60  
 Gln His Glu Phe Leu Asp Phe Phe Asp Ile Glu Val Phe Asn Asn Leu  
 65 70 75 80  
 Asp Lys Gln Ser Lys Lys Ala Tyr Glu Asn Val Ile Gly Phe Arg Gln  
 85 90 95  
 Met Ile Asn Leu Ser Asn Arg Val Lys Ala Met Glu Asp Phe Lys Met  
 100 105 110  
 Ser Phe Asn Asn Glu Phe Ser Thr Asn Gln Ile Phe Phe Asn Pro Ser  
 115 120 125  
 Phe Val Met Ile Ala Ile Ile Asn Glu Tyr Gln Lys Asp Ile Ser Tyr  
 130 135 140  
 Leu Lys Asn Ile Ile Asn Lys Met Asn Glu Asn Arg Ala Tyr Asn His  
 145 150 155 160  
 Ile Asp Ser Phe Ile Thr Ser Glu Tyr Arg Arg Lys Ile Asn Asp Tyr  
 165 170 175  
 Asn Leu Tyr Leu Asp Lys Phe Glu Glu Gln Phe Ser Gln Lys Phe Lys  
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 Ile Asn Arg Thr Ser Ile Lys Glu Arg Ile Ile Ile Asn Leu Asn Lys  
 195 200 205  
 Arg Arg Phe Lys  
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<210> 21  
 <211> 85  
 <212> PRT  
 <213> Staphylococcus aureus bacteriophage 77

<400> 21  
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 Gly Phe Asp Phe Lys Leu Phe Ile Leu Lys Gly His Met Gly Ile Ser  
 20 25 30  
 Ile Gln Val Lys Asp Met Asn Asn Val Pro Ile Lys His Ala Tyr Val  
 35 40 45  
 Val Asp Glu Asn Asp Leu Asp Met Ala Ser Asp Leu Phe Asn Gln Ala  
 50 55 60  
 Ile Asp Glu Trp Ile Glu Glu Asn Thr Asp Gln Asp Arg Leu Ile Asn  
 65 70 75 80  
 Leu Val Met Lys Trp  
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<210> 22  
<211> 86  
<212> PRT  
<213> Staphylococcus aureus bacteriophage 77

<400> 22  
Met Tyr Tyr Glu Ile Gly Glu Ile Ile Arg Lys Asn Ile His Val Asn  
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Gly Phe Asp Phe Lys Leu Phe Ile Leu Lys Gly His Met Gly Ile Ser  
20 25 30  
Ile Gln Val Lys Asp Met Asn Asn Val Pro Ile Lys His Ala Tyr Val  
35 40 45  
Val Asp Glu Asn Asp Leu Asp Met Ala Ser Asp Leu Phe Asn Gln Ala  
50 55 60  
Ile Asp Glu Trp Ile Glu Glu Asn Thr Asp Glu Gln Asp Arg Leu Ile  
65 70 75 80  
Asn Leu Val Met Lys Trp  
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<210> 23  
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<213> Staphylococcus aureus bacteriophage 77

<400> 23  
Met Ser Asn Ile Tyr Lys Ser Tyr Leu Val Ala Val Leu Cys Phe Thr  
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Val Leu Ala Ile Val Leu Met Pro Phe Leu Tyr Phe Thr Thr Ala Trp  
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Ser Ile Ala Gly Phe Ala Ser Ile Ala Thr Phe Met Tyr Tyr Lys Glu  
35 40 45  
Cys Phe Phe Lys Glu  
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<210> 24  
<211> 53  
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<213> Staphylococcus aureus bacteriophage 77

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Val Leu Ala Ile Val Leu Met Pro Phe Leu Tyr Phe Thr Thr Ala Trp  
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Ser Ile Ala Gly Phe Ala Ser Ile Ala Thr Phe Met Tyr Tyr Lys Glu  
35 40 45  
Cys Phe Phe Lys Glu  
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Tyr Ala Gln Lys Leu Ile Asp Glu Ala Gln Gly Asp Glu Asn Arg Leu  
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Tyr Asp Leu Phe Ile Gln Lys Leu Ala Glu Arg His Thr Arg Pro Ala  
35 40 45  
Ile Val Glu Tyr  
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<210> 26  
<211> 50  
<212> PRT  
<213> Staphylococcus aureus bacteriophage 77

<400> 26  
Met Val Thr Lys Glu Phe Leu Lys Thr Lys Leu Glu Cys Ser Asp Met  
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Tyr Ala Gln Lys Leu Ile Asp Glu Ala Gln Gly Asp Glu Asn Arg Leu  
20 25 30  
Tyr Asp Leu Phe Ile Gln Lys Leu Ala Glu Arg His Trp Ala Ile Val  
35 40 45  
Glu Tyr  
50

<210> 27  
<211> 98  
<212> PRT  
<213> Staphylococcus aureus bacteriophage 77

<400> 27  
Met Phe Asn Ile Lys Arg Lys Thr Glu Glu Val Lys Met Tyr Tyr Glu  
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Ile Gly Glu Ile Ile Arg Lys Asn Ile His Val Asn Gly Phe Asp Phe  
20 25 30  
Lys Leu Phe Ile Leu Lys Gly His Met Gly Ile Ser Ile Gln Val Lys  
35 40 45  
Asp Met Asn Asn Val Pro Ile Lys His Ala Tyr Val Val Asp Glu Asn  
50 55 60  
Asp Leu Asp Met Ala Ser Asp Leu Phe Asn Gln Ala Ile Asp Glu Trp  
65 70 75 80  
Ile Glu Glu Asn Thr Asp Glu Gln Asp Arg Leu Ile Asn Leu Val Met  
85 90 95  
Lys Trp

<210> 28  
<211> 98  
<212> PRT  
<213> Staphylococcus aureus bacteriophage 77

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Ile Gly Glu Ile Ile Arg Lys Asn Ile His Val Asn Gly Phe Asp Phe  
20 25 30  
Lys Leu Phe Ile Leu Lys Gly His Met Gly Ile Ser Ile Gln Val Lys  
35 40 45  
Asp Met Asn Asn Val Pro Ile Lys His Ala Tyr Val Val Asp Glu Asn  
50 55 60  
Asp Leu Asp Met Ala Ser Asp Leu Phe Asn Gln Ala Ile Asp Glu Trp  
65 70 75 80  
Ile Glu Glu Asn Thr Asp Glu Gln Asp Arg Leu Ile Asn Leu Val Met  
85 90 95  
Lys Trp

<210> 29  
<211> 237  
<212> PRT  
<213> Staphylococcus aureus bacteriophage 77

<400> 29  
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Asn Pro Lys Phe Lys Lys Leu Asp Ser Asp Ile His Tyr Leu Leu Lys  
20 25 30  
Arg Phe Glu Gly Glu Lys Asn His Lys Gly Phe Tyr Pro Lys Phe Lys  
35 40 45  
Gln Gly Glu Ile Val Phe Val Asp Phe Gly Ile Asn Val Asn Lys Glu  
50 55 60  
Phe Ser Asn Ser His Phe Ala Ile Val Met Asn Lys Asn Asp Ser Asn  
65 70 75 80  
Thr Glu Asp Ile Val Asn Val Ile Pro Leu Ser Ser Lys Glu Asn Lys  
85 90 95  
Lys Tyr Leu Lys Met Asn Phe Asp Leu Lys Trp Glu Tyr Tyr Leu Arg  
100 105 110  
Leu Phe Leu Asn Leu Ile Ser Ala Gln Asn Asn Ser Ala Ile Leu Lys  
115 120 125  
Glu Val Phe Asp Lys Lys Tyr Gln Lys Asn Asn Thr Glu Phe Ile Thr  
130 135 140  
Lys Asp Tyr Phe Ile Glu Phe Ile Ser Asp Ser Leu Glu Ile Glu Asn  
145 150 155 160  
Lys Leu Asn Lys Ile Asp Arg Asn Ile Asn Asn Ile Val Ser Ala Ile  
165 170 175  
Asp Lys Val Lys Lys Leu Lys Gly Asn Ser Tyr Ala Cys Ile Asn Ser  
180 185 190  
Phe Gln Pro Ile Ser Lys Phe Arg Ile Arg Lys Val Leu Pro Gln Lys  
195 200 205  
Ile Lys Asn Pro Val Ile Asp Ser Ser Asp Ile Met Leu Leu Ile Asn

See  
B1  
cont

See  
B1  
AGMT  
Al  
Conclude

210	215	220
Arg Ile Asn Asn Asn Ile Leu Gln Ile Pro Asp Ile Arg		
225	230	235